

## LITERATURE CITED

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## NOTES

ADDITIONAL SUPPORT FOR THE RECENT-INVASIVE ADVENT OF MESQUITE (MIMOSA-CEAE: *Prosopis*) IN THE SAN JOAQUIN VALLEY, CALIFORNIA.—In a recent article (Holland, *Madroño* 34:324-333, 1987), I speculated that one or both species of mesquite present in the San Joaquin Valley (*Prosopis glandulosa* and *P. pubescens*) were naturalized sometime between 1870 and 1890. Additional support for the hypothesis of human-mediated establishment of *P. glandulosa* has since been found in an article by Mackie (*Nemophila* 8:30, 1920) from which we quote in part: "Some years ago, Mr. J. A. Jastro, a well-known cattleman, introduced the large-podded mesquite (*Prosopis glandulosa*) into the head of the San Joaquin Valley in Kern County to improve the cattle ranges. The bushes grew from seeds producing less than a dozen individuals. When these specimens fruited the cattle at once began to feed on the pods and in this manner the mesquite was spread over a large area lying between Buena Vista lake reservoir and Button Willow." Haas et al. (*Texas Agric. Exp. Sta. Monogr.* 1:10-19, 1973) have shown that *P. glandulosa* can produce flowers within three years of germination, although other information (Mooney et al., *In* Simpson, ed., *Mesquite: its biology in two desert scrub ecosystems*, 1977) indicates that longer periods may be normal. Given Linton's observation of "an occasional patch of mesquite and sage" on the north shore of Buena Vista Lake in 1907 (*Condor* 10:196-198, 1908), the introduction may have occurred as late as 1900.

Additionally, the statement in the first paragraph of my recent article (Holland, *op. cit.*) concerning the number and distribution of species of *Prosopis* is in error. According to Burkart and Simpson (*In* Simpson, *op. cit.*), the genus contains 44 species, 40 of which occur in the New World.—DAN C. HOLLAND, Dept. of Biology, Univ. Southwestern Louisiana, Lafayette 70504-2451 and BARRETT ANDERSON, Dept. of Botany, California Academy of Sciences, Golden Gate Park, San Francisco 94118. (Received 29 Mar 1988; revision accepted 12 Sep 1988.)